	Application No.	Applicant(s)	_
•	09/767,390	WU ET AL.	
Notice of Allowability	Examiner	Art Unit	_
	HOAN C. NGUYEN	2871	
The MAILING DATE of this communication appears on the cover sheet with the correspondence address All claims being allowable, PROSECUTION ON THE MERITS IS (OR REMAINS) CLOSED in this application. If not included herewith (or previously mailed), a Notice of Allowance (PTOL-85) or other appropriate communication will be mailed in due course. THIS NOTICE OF ALLOWABILITY IS NOT A GRANT OF PATENT RIGHTS. This application is subject to withdrawal from issue at the initiative of the Office or upon petition by the applicant. See 37 CFR 1.313 and MPEP 1308.			
1. This communication is responsive to <u>RCE filed on 7/20/2007</u> .			
2. ☑ The allowed claim(s) is/are <u>1-12</u> .			
 3. Acknowledgment is made of a claim for foreign priority u a) All b) Some* c) None of the: 1. Certified copies of the priority documents have 	e been received.		
2. Certified copies of the priority documents hav	• •		
3. Copies of the certified copies of the priority do	ocuments have been receiv	ed in this national stage application from the	
International Bureau (PCT Rule 17.2(a)). * Certified copies not received:			i
Applicant has THREE MONTHS FROM THE "MAILING DATE" of this communication to file a reply complying with the requirements noted below. Failure to timely comply will result in ABANDONMENT of this application. THIS THREE-MONTH PERIOD IS NOT EXTENDABLE.			
4. A SUBSTITUTE OATH OR DECLARATION must be submitted. Note the attached EXAMINER'S AMENDMENT or NOTICE OF INFORMAL PATENT APPLICATION (PTO-152) which gives reason(s) why the oath or declaration is deficient.			
5. CORRECTED DRAWINGS (as "replacement sheets") must be submitted.			
(a) ☐ including changes required by the Notice of Draftsperson's Patent Drawing Review (PTO-948) attached			
1) hereto or 2) to Paper No./Mail Date			
(b) ☐ including changes required by the attached Examiner's Amendment / Comment or in the Office action of Paper No./Mail Date			
Identifying indicia such as the application number (see 37 CFR 1.84(c)) should be written on the drawings in the front (not the back) of each sheet. Replacement sheet(s) should be labeled as such in the header according to 37 CFR 1.121(d).			
6. DEPOSIT OF and/or INFORMATION about the deposit of BIOLOGICAL MATERIAL must be submitted. Note the attached Examiner's comment regarding REQUIREMENT FOR THE DEPOSIT OF BIOLOGICAL MATERIAL.			
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Attachment(s)	E	Informal Datast Application	
 Notice of References Cited (PTO-892) Notice of Draftperson's Patent Drawing Review (PTO-948) 		Informal Patent Application Summary (PTO-413),	
	Paper N	o./Mail Date	
 Information Disclosure Statements (PTO/SB/08), Paper No./Mail Date 	7. 🔲 Examine	's Amendment/Comment	
4. Examiner's Comment Regarding Requirement for Deposit of Biological Material		's Statement of Reasons for Allowance	
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DETAILED ACTION

Continued Examination Under 37 CFR 1.114

A request for continued examination under 37 CFR 1.114, including the fee set forth in 37 CFR 1.17(e), was filed in this application after final rejection. Since this application is eligible for continued examination under 37 CFR 1.114, and the fee set forth in 37 CFR 1.17(e) has been timely paid, the finality of the previous Office action has been withdrawn pursuant to 37 CFR 1.114. Applicant's submission filed on 7/20/2007 has been entered.

Allowable Subject Matter

Claims 1-12 are allowed.

Reasons for Allowance

Claim 1 is allowed since there is no prior art teaches a pixel structure for a liquid crystal display device comprising

- a first substrate, with respect to a pixel, having a W-like extruding structure
 composed of two V-like structures formed on a surface of the first substrate,
 which is with respect to a top view of the first substrate, wherein the pixel serves
 as a pixel unit including the two V-like structures to form one unit of the W-like
 extruding structure;
- an second substrate, parallel to the first substrate, having a plurality of openings,
 wherein, with respect, to the top view, the openings are aligned along a direction
 from a tip of the V-like structures to an edge of the pixel structure;

Any comments considered necessary by applicant must be submitted no later than the payment of the issue fee and, to avoid processing delays, should preferably accompany the issue fee. Such submissions should be clearly labeled "Comments on Statement of Reasons for Allowance."

Conclusion

The prior art made of record and not relied upon is considered pertinent to applicant's disclosure:

Yamada (US6614497B2) discloses the VA LCD including an array of first protrusions 110 with W-structure on the first substrate and an array of slits (opening) 130 on the pixel electrode, wherein each of slits 130 is aligned along a direction from the tip of V-like structure. However, Yamada was filed on May 29, 2001 that is after the filing date Jan. 23, 2001 of the instant application.

Ikeda et al. (US7139061B2) disclose (Fig. 6) the LCD device comprising the projection patterns 3b onto the substrate 1b side and slits may be provided to the electrode 2b.

Song et al. (US 7110078 B2) disclose (Fig. 7) the protrusions 15 with V-structure and slits 3 both forming on the pixel electrode 16.

Moriya et al. (US 6690441 B2) disclose (Figs. 1-2) the LCD device comprising forming the protrusions and slits having the V-structure.

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Any inquiry concerning this communication or earlier communications from the examiner should be directed to HOAN C. NGUYEN whose telephone number is (571) 272-2296. The examiner can normally be reached on MONDAY-THURSDAY:8:00AM-4:30PM.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, David Nelms can be reached on (571) 272-1787. The fax phone number for the organization where this application or proceeding is assigned is 571-273-8300.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free). If you would like assistance from a USPTO Customer Service Representative or access to the automated information system, call 800-786-9199 (IN USA OR CANADA) or 571-272-1000.

HOAN C. NGUYEN Examiner Art Unit 2871

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ANDREW SCHECHTER
PRIMARY EXAMINER